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TITLE: LIQUID CRYSTAL DISPLAY ELEMENT
AND DEVICE
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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To obtain the liquid crystal display element which has the excellent light scattering characteristic and shielding effect at the time of voltage non- impression and the excellent transparency at the time of impression by constituting a liquid crystal material of a cholesteric liquid crystal material having a specific spiral pitch.

CONSTITUTION: This liquid crystal display element has 2 sheets of conductive substrates 3, 4 including at least one sheet of transparent

conductive substrate. The cholesteric liquid crystal material 1, 10 having the spiral pitch of $\geq 0.5\mu\text{m}$ and $\leq 10\mu\text{m}$ spiral pitch is used for the liquid crystal material of the liquid crystal layer consisting of a layer of the object to be penetrated essentially consisting of the liquid crystal material interposed between these substrates and at least one layer of fibrous assemblage 2 penetrated with and holding the liquid crystal material. Thus, the light scattering characteristic at the time of voltage non-impression is improved and the sufficient shielding effect is obtd. In addition, the high contrast is obtd.

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